

NAME OF PROPERTY **DUNWELL, SUNBEAM, GEORGE E.**

OBJECT LOCATED

UNCERTAINTY IN METERS

Lat. **55°59'45"** Long. **129°55'25"**

Mining Division

Skeena

District

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The country rock is argillite of the lower part of the Hazelton Group of probable Triassic age. A small granitic stock of the Coast Intrusions outcrops about 1,500 feet west of the main Dunwell workings. The Portland Canal fissure zone, with a variable width that is as much as 1,500 feet in some places, extends in a northerly direction for about 4 miles. The zone is characterized by shearing, faulting, and by the presence of several parallel mineral-bearing veins. The Dunwell vein, like many of the veins and all of the known ore-bearing veins in the Portland Canal fissure zone, is associated with a pre-mineral dyke 6 inches to 2 feet wide that is present in all of the underground workings below No. 2 adit.

On the Dunwell claims, the two main veins, the Dunwell and North-South, dip westerly at about 45°; the veins join and continue northward as one. The Dunwell vein, from 1 to 7 feet wide, consists of quartz mineralized with pyrite, galena, sphal-
see Card 2
Associated minerals or products of value - Gold, zinc, lead, copper.

HISTORY OF EXPLORATION AND DEVELOPMENT

This property is located about $4\frac{1}{2}$ miles northeast of Stewart, the claims lying on the east side of the Bear River about $\frac{3}{4}$ of a mile north of Glacier Creek. The Dunwell, along with the Glacier Creek, Portland Canal, and other smaller properties, all lie along the Portland Canal fissure zone.

The Sunbeam, Ben Hur, George E. and Sundown claims were apparently located in about 1907 by the Stewart Bros. They formed the Stewart Mining & Development Company Limited and prospecting and development work, mainly on the George E. claim, was carried on until 1911 when all work ceased. The property was subsequently turned over to Nass River Lands Limited, which was apparently owned by the Stewart Bros. and W. Noble, and the Stewart Mining & Development Company Limited was dissolved.

The property was idle until 1922 when Dunwell Mines Limited was formed by a specially limited reorganization of Nass River Lands Limited. The company held 24 claims and fractions, including the Dunwell claims which adjoin the original claim group on the east. Exploration and development work was carried out on the Dunwell claims during 1923 and 1924, and on the Sunbeam claim during 1925. A new 100 ton mill was put into operation early in the summer of 1927, however by late September of that year all available ore reserves had been milled and the operation shut down. The Radiore Company of Canada Limited carried out an electrical prospecting survey of the property in 1928 and this was followed by diamond drilling in 1929. The property lay idle until lessees began working on the Sunbeam and Ben Ali veins in 1932. In April 1934 the company resumed operations with mill capacity reduced to 25 tons per day due to the sale of some of the machinery to Bralorne Mines Ltd. The company operated until July 1935 when lessees resumed work. In 1936 the Welldun Mining, Milling & Power Company Limited, a private company, obtained a 4 year agreement to do the mining on contract, however, operations were suspended late in 1937. Lessees worked the property from 1939 to 1941.

The Dunwell vein was explored on 6 levels, from 4 adits, over a vertical range of 500 feet. The workings, consisting
see Card 2

Mineral Resources Branch, Department of Energy, Mines and Resources, Ottawa.

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HISTORY OF PRODUCTION

From 1926 to 1941, 50,387 tons of ore were milled. From this ore 9,876 ounces of gold, 329,805 ounces of silver, 27,014 pounds of copper, 1,847,838 pounds of lead, and 2,444,627 pounds of zinc were recovered. The tonnage figure includes some retreated tailings.

REFERENCES

Mandy, J.T.; Dunwell Mines Limited; Report of Minister of Mines, British Columbia, 1937, pp. B-19-B-22.

Hanson, G.; Portland Canal Area, B.C.; Memoir 175, p. 112, Geol. Surv. of Canada, 1935.

Hanson, G.; Bear River & Stewart Map-Areas, Cassiar District, B.C.; Memoir 159, pp. 48, 54, and Fig. 12, Geol. Surv. of Canada, 1929.

Annual Reports, Department of Mines, British Columbia: 1907, p. 73; 1908, p. 55; 1922, p. 72; 1923, p. 71; 1924, pp. 62-64; 1933, pp. 54-59; 1934, pp. B-19-B-22; 1936, p. B-57; 1964, p. 22; 1965, p. 51; 1966, p. 41.

Mineral Sector; Corporation Files: "Dunwell Mines Ltd."; "Stewart Mining & Development Co. Ltd."; "Silver Arrow Explorations Ltd."; "Stampede International Resources Ltd."; "Silver Princess Resources Inc."

McConnell, R.G.; Portland Canal District; Summary Report 1910, p. 77, Geol. Surv. of Canada.

Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy, 1926, No. 688 (Invest. Rept. #241), pp. 3-6; 1937, No. 776, p. 197.

Grove, Edward W.; Geology and Mineral Deposits of the Stewart Area; Bulletin No. 28, pp. 129-131, British Columbia Department of Mines, 1971.

MAP REFERENCES

Map 307 A, Portland Canal Area, (Geol.), Sc. 1":4 miles - accomp. Memoir 175.

Map 315 A, Portland Canal Area, (Mining Properties), Sc. 1":4 miles - accomp. Memoir 175.

Map 193 A, Stewart Sheet, (Topo.), Sc. 1:50,000.

Geological Map of the Stewart Area, Sc. 1": $\frac{1}{2}$ mile, Fig. 3, Sheet B - accomp. Bulletin No. 58.

Stewart Area, Crown-Grant claim map, Fig. 15 B - accomp. Bulletin No. 58.

Composite Plan, Dunwell Mines Ltd., Sc. 1":100 ft., Fig. 29 - accomp. Bulletin No. 58.

Map 103 P/13, Stewart, (Topo.), Sc. 1:50,000.

REMARKS

BCI 103 O-P-52,53,54

Comp./Rev. By			DMacR	DMacR		
Date	1-68	3-73	11-74	11-80		

NAME OF PROPERTY DUNWELL, SUNBEAM, GEORGE E.

DESCRIPTION OF DEPOSIT (continued)

erite, and tetrahedrite disseminated through the quartz and in some places making up 75% of the vein. On the Sunbeam claim, two quartz sulphide veins are known. They vary from 2 to 6 feet wide and are mineralized with galena, pyrite, sphalerite, and contain as well some tetrahedrite and native silver. The George E. vein varies from 18 inches to 6 feet in width and is well mineralized in places.

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

of about 4,000 feet of drifts and crosscuts, explore the vein for about 800 feet along strike. The Sunbeam vein was developed by two adits, the one a short crosscut, the other a crosscut 300 feet long with a drift on the vein for 200 feet. The vein was found to be smaller at depth than at the surface and so sparsely mineralized that it was not developed further. The George E. vein has been developed by some 1,000 feet of drift in two adits.

Frontier Mines Limited held the property in 1951 and carried on surface exploration. No further work was reported until Silver Arrow Mines Limited, incorporated in March 1963, acquired six of the original Crown-granted claims. During 1964 a program of surface prospecting and sampling was carried out. Eight Crown-granted claims were held in 1965 and a program of surveying of old workings and exposures, geological mapping, and sampling was carried out. The company name was changed in February 1966 to Silver Arrow Explorations Ltd. During 1966 trenching was done along the extensions of the known vein system. In April 1970 Silver Arrow amalgamated with the Buttle Lake Mining Company Limited under the name Stampede International Resources Ltd.

Silver Princess Resources Inc. in March 1979 optioned from H.A. Briden, of Vancouver, and Julian Berksoha, of Port Moody, 19 reverted Crown-grants including the Ben Hur (Lot 870), George E (Lot 872), Dunwell (Lot 4286), Sundown Fr. (Lot 4292) and adjacent claims. The Sunbeam (Lot 869) and Dunwell Fr. (Lot 4290) were acquired from Pacific Cassiar Limited by an option agreement dated February 1979.